



SYLLABUS

| CLASS: XI STREAM: SCIENCE-MATHS | |
|-----------------------------------|---|
| PHYSICS: | Physical world and measurement Kinematics Laws of Motion Work, Energy, Power Motion of System of Particles & Rigid body Thermodynamics |
| CHEMISTRY: | Some basic concept of Chemistry (Unit-1) NCERT XI Structure of Atom (Unit-2) NCERT XI Classification of Elements and Periodicity in Properties (Unit-3) NCERT XI Chemical bonding and Molecular Structure (Unit-4) NCERT XI States of Matter (Unit-5) NCERT XI Organic Chemistry : Some Basic Principles and Techniques (Unit-12) NCERT XI Hydrogen (Unit-9) NCERT XI s-Block Element (Unit-10) NCERT XI |
| MATHS: | SETS : Subtopic: Sets and their Representations, The Empty Set, Finite and Infinite Sets,Equal Sets, Subsets, Power Sets, Universal Sets, Venn Diagrams, Operations on sets, Complement of a Sets, Practical Problems on Union and intersection of two sets. RELATIONS AND FUNCTIONS (Elementary Function and their Domain, Range). SUBTOPIC: Cartesian Product of Sets, Relations, Modulus function & G.I.F.&log functions. TRIGONOMETRIC FUNCTIONS & SOLUTIONS OF TRIANGLE including trigonometric equations). SUBTOPIC: Angles, Trigonometric functions, Trigonometric functions of sum and difference of two angles, Trigonometric equations, Basics of solution of triangle. PRINCIPLE OF MATHEMATICAL INDUCTION SUBTOPIC: Motivation, The principle of Mathematical Induction. QUADRATIC EQUATIONS : Quadratic equations in real and complex number system and their solutions. Relation between roots and co-efficients, nature of roots, formation of quadratic equations with given roots. LINEAR INEQUALITIES SUBTOPIC: Inequalities,Algebra solutions of Linear inequalities in two variables, Solution of system of linear inequalities in two variables, Solution of system of linear inequalities in two variables. PERMUTATIONS AND COMBINATIONS SUBTOPIC: Bunomial theorem for positive integral indices, General and middle terms. SEQUENCE & SERIES SUBTOPIC: Sequences, series, Arithmetic progression (A.P.), Geometric Progression (G.P.), Relationship between A.M. and G.M., Sum to n terms of special series. SEQUENCE & SERIES STARIGHT LINE : Two dimensions: Cartesian coordinates, distance between two points, section formulae, shift of origin. Equation of a straight line in various forms, angle between two lines, distance of a point form a line. Lines through the point of intersection of two given lines, equation of the bisector of the angle between |



 Corporate Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005

 Website : www.resonance.ac.in | E-mail : contact@resonance.ac.in

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